

What is claimed is:

1 1. A transflective display device, comprising:
2 an upper substrate and a lower substrate;
3 a liquid crystal layer interposed between the inner
4 surface of the upper substrate and the inner
5 surface of the lower substrate;
6 a reflective electrode layer formed overlying the inner
7 surface of the lower substrate to serve as a
8 reflective area of a pixel electrode;
9 a transparent electrode layer formed overlying the
10 inner surface of the lower substrate, in which
11 the transparent electrode layer not covered by
12 the reflective electrode layer serves as a
13 transmissive area of a pixel electrode;
14 a first polarizer formed overlying the outer surface of
15 the upper substrate;
16 a second polarizer formed overlying the outer surface
17 of the lower substrate; and
18 an optical compensation plate formed between the second
19 polarizer and the lower substrate.

1 2. The transflective display device as claimed in
2 claim 1, further comprising a backlight device disposed
3 adjacent to the second polarizer.

1 3. The transflective display device as claimed in
2 claim 1, wherein the optical compensation plate is a half-
3 wave plate (HWP) having a phase retardation of $\lambda/2$.

1 4. The transflective display device as claimed in
2 claim 1, wherein the first polarizer has a transmissive axis
3 perpendicular to a transmissive axis of the second
4 polarizer.

1 5. The transflective display device as claimed in
2 claim 1, wherein the optical compensation plate has a short
3 axis disposed at a 45° angle to the transmissive axis of the
4 second polarizer.

1 6. The transflective display device as claimed in
2 claim 1, wherein the liquid crystal molecules in the liquid
3 crystal layer have a twisting angle of 0°~50°.

1 7. The transflective display device as claimed in
2 claim 1, further comprising a color filter layer formed
3 overlying the inner surface of the upper substrate.

1 8. The transflective display device as claimed in
2 claim 1, further comprising a common electrode layer formed
3 overlying the inner surface of the upper substrate.